

20001219.ba v03_n063.bam.20001219

>From ???@??? Tue Dec 19 14:43:53 2000 -0600
Date: Tue, 19 Dec 2000 14:41:29 CST
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 3063
Message-Id: <20001219214643.26A625F4A@devel43.theporch.com>

BOATANCHORS Digest 3063

Topics covered in this issue include:

- 1) Swan PS advice needed
by James.Reid@merisel.com
- 2) Meter Needed
by jim_allen@agilent.com
- 3) Re: BC-189
by Richard Loken <richardlo@devax.admin.athabascau.ca>
- 4) RE: Split phase motor capacitor
by "Bill Hawkins" <bill@iaxs.net>
- 5) RCA HB-3 books for trade or ?
by James.Reid@merisel.com
- 6) Re: Stinson Reliant aircraft
by "Ed White" <wa3bzt@wserv.com>
- 7) Heath Soldering Iron
by "Ed White" <wa3bzt@wserv.com>
- 8) RE: Fender amp grounding question
by n6nae@ix.netcom.com
- 9) Re: Split phase motor capacitor
by jackiv@juno.com
- 10) BC189 dates and man
by "philip mccoy" <dgnova@erols.com>
- 11) Wen 199
by "Arnulf P. Hagen" <aphagen@okla.net>
- 12) Need SP600 photos
by michael watts <wy6k@yahoo.com>
- 13) Tr: old-fashioned soldering iron
by =?iso-8859-1?Q?Andr=E9_Guibert?= <aguibert@sympatico.ca>
- 14) Re: BC-189
by Ed Zeranski <ezeran@concentric.net>
- 15) Re: old-fashioned soldering iron
by Paul Monroe <pmonroe@charter.net>
- 16) Re: Meter Needed
by Ed Zeranski <ezeran@concentric.net>
- 17) Need Thordarson Info
by "Greg KX4R" <kx4rgc@email.msn.com>
- 18) Re: Need Thordarson Info

- by john <johnmb@mindspring.com>
- 19) Re: Need Thordarson Info
by "Sandy Blaize" <ebjr@i-55.com>
- 20) Re: old-fashioned soldering iron
by jackiv@juno.com
- 21) Split phase motor capacitor-Chapter II
by "Herbert M. Rosenthal" <herbrose@lobo.net>
- 22) Re: Split phase motor capacitor-Chapter II
by Bob Roehrig <broehrig@admin.aurora.edu>
- 23) Re: Split phase motor capacitor-Chapter II
by Arden Allen <gumbear@pacbell.net>
- 24) Old Military Radio Net 10th Anniversary This Saturday
by "Christopher A.Bowne" <radiobwn@ricconnect.com>
- 25) SUBJECT: RE: LOUDSPEAKER Z
by JOHN.SEHRING@ecunet.org

Mime-version: 1.0
Date: Mon, 18 Dec 2000 08:15:23 -0800
Message-ID: <ba6d.50087@merisel.com>
From: James.Reid@merisel.com
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Swan PS advice needed
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit
Content-description: cc:Mail note part
Content-disposition: inline

Greetings everyone!

I recently purchased a 117-XC to go with my Swan 250. The unit was described as non-working, but I really didn't care. What's the worst thing that could be wrong with it, right?? I can sum it up in a little poem:

"How much goo
can a transformer spew,
when a transformer
does spew goo?"

Everything inside the 117-X module has been sputtered with icky brown stuff. The transformer is definitely one crispy critter and not salvagable. I can't believe this thing could have been damaged this severely without popping a fuse.

Regardless, I'm still short a supply. I have a few options, but I'd like the advice of the group.

- 1) Buy a replacement from Peter Dahl. It's \$165 plus shipping and you might as well recap the unit, too. Easily \$40 worth of electrolytics.
- 2) Stick my remaining 117-X in the cabinet, which now means the Swan 500CX has no power supply.
- 3) Wait for one to show up on the "e" place or Usenet or wherever and hope you don't get sniped or end up with another smoked unit.

4) Hope that maybe someone on the BA list has a 117-X or preferably a 117-XC for sale or trade.

Let me know what you think.

-Jim

Message-ID: <1BEBA5E8600DD4119A50009027AF54A002C04E8D@axcs04.cos.agilent.com>
From: jim_allen@agilent.com
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Meter Needed
Date: Mon, 18 Dec 2000 10:33:07 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

I recently got a Lysco 600 transmitter with a bad meter. I'm in need of a 2" one that is 0-150 ma full scale. Glad to pay a fair price and shipping.

Thanks,

Jim

Date: Mon, 18 Dec 2000 11:08:14 -0600 (MDT)
From: Richard Loken <richardlo@devax.admin.athabascau.ca>
Subject: Re: BC-189
To: Old Tube Radios <boatanchors@theporch.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Message-id:
<Pine.PMDF.3.95.1001218110052.541150932B-100000@devax.admin.athabascau.ca>
MIME-version: 1.0
Content-type: TEXT/PLAIN; charset=US-ASCII

On Fri, 15 Dec 2000, Marty's Refl. Drop wrote:

> Stilwell used 'em in Burma & got DuMont to make a batch in '42. Supposedly
> only radio that'd work in rice paddies.

I think other issues would have pushed Vinager Joe in that direction. When the British and Americans were running (well slogging miserably then) through Burma they were bringing along extra mules to carry the radios, batteries, generators to charge the batteries, and gasoline. They still had to have gasoline dropped onto them every few days and when all this trouble had been gone through, communications with India were still not that good.

A BC-189 could actually be transported and depended on to work without regular air drops. Cranking the generator would be a small price to pay for not having to lug around the batteries and charging equipment.

Burma put a whole new meaning to the word, "misery".

Richard Loken VE6BSV, Systems Programmer - VMS
Athabasca University
Athabasca, Alberta Canada
** richardlo@admin.athabascau.ca **

From: "Bill Hawkins" <bill@iaxs.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: Split phase motor capacitor
Date: Mon, 18 Dec 2000 12:06:56 -0600
Message-ID: <000301c0691d\$4efdd540\$290aa8c0@darius>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Herb,

An oil filled capacitor has very low leakage compared to an electrolytic. I expect the resistor is a bleeder, mostly to keep a lawyer from appearing at the manufacturer's door with a victim in tow. Perhaps it is spot welded for safety, or maybe the spot welder was handy and a soldering iron wasn't.

Bill

Mime-version: 1.0
Date: Mon, 18 Dec 2000 10:40:32 -0800
Message-ID: <c306.50087@merisel.com>
From: James.Reid@merisel.com
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RCA HB-3 books for trade or ?
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit
Content-description: cc:Mail note part
Content-disposition: inline

Hello again, all.

In digging thru the garage yesterday, I found 4 volumes from the coveted HB-3 set. These are in fair shape and I have no idea if they're complete.

Here's what I have:

Vol 3-4, 7-8, 9-10, and one volume in a HB-3 binder that has CRT listings.

Since I don't have the complete set and no real desire to complete this one, I'm offering them up to the group. Would rather swap for something useful(still need a Swan 117-XC or a manual for a Yaesu FT-101E) than deal with \$\$\$. Also don't expect shipment before the holidays. I'm not going near UPS or P.O.

Regards,

-Jim

Message-ID: <000f01c06923\$b5f3cec0\$7abc69ce@tsunami2>

From: "Ed White" <wa3bzt@wserv.com>

To: Old Tube Radios <boatanchors@theporch.com>

Cc: <carlps@erols.com>

Subject: Re: Stinson Reliant aircraft

Date: Mon, 18 Dec 2000 13:52:44 -0500

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "Ed White" <wa3bzt@wserv.com>

To: "Boatanchors" <boatanchors@theporch.com>

Sent: Tuesday, November 14, 2000 5:30 PM

Subject: Stinson Reliant aircraft

Hi Gang:

Had a phone call from a person that is rebuilding a Stinson Reliant aircraft and would like to know what radio equipment was used while it was in service during WWII. He was informed that both the US (Cost Guard, Navy) and the UK had these aircraft

Do any of you know??

Ed White

WA3BZT

Message-ID: <001501c06923\$dd2c1740\$7abc69ce@tsunami2>

From: "Ed White" <wa3bzt@wserv.com>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Heath Soldering Iron
Date: Mon, 18 Dec 2000 13:53:50 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Gang
I need any information on where to get the tips for a Heathkit GH-17
Soldering Iron. I know that there are several different types of tips, What
I am looking for is the 1/4"chisel type
Any help?
Ed White
WA3BZT

From: n6nae@ix.netcom.com
Date: Mon, 18 Dec 2000 15:22:19 -0500
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: Fender amp grounding question
Message-ID: <Springmail.105.977170939.0.92892500@www.springmail.com>

Hi:
That switch is there to allow grounding the amp to the low side of the
line. You flip the switch to the position that eliminates the hum
and other noises you get when you touch the metal guitar strings.
No comment on the noises you get when you pluck the strings. If the
amp isn't grounded, the player can cause clicks and buzzes when touching the
strings.

Replace the cap with a modern UL/VDE line filter cap and rock on!
Sorry. Why don't I ever find anything neat at the dump????
Richard

To: Old Tube Radios <boatanchors@theporch.com>
Cc: boatanchors@theporch.com
Date: Mon, 18 Dec 2000 15:13:43 -0600
Subject: Re: Split phase motor capacitor
Message-ID: <20001218.154114.-327381.0.jackiv@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
From: jackiv@juno.com

Herbert, this is a discharge resistor to prevent electrical shock to people like us who don't now how to discharge a capacitor when out of the circuit!

jack

JACK IVERSON ARRL OOTC RCA IEEEELM
 TCA QCWA AMI CCA

1110 N OLD MILL RD

PALATINE IL 60067

jackiv@juno.com

On Mon, 18 Dec 2000 08:05:29 -0700 "Herbert M. Rosenthal"

<herbrose@lobo.net> writes:

> I recently bought a NOS oil filled 50 uf, 240v AC motor capacitor for
> a

> split phase drive motor in the remote antenna tuner that I'm
> building.

> It works fine with the motor.

>

> The capacitor has two dual quick-tab terminals, and there is a 470k

> 1/4

> watt resistor, SPOT WELDED across the capacitor terminals.

>

> I've never seen this before. It certainly appears that the resistor
> is a

> permanent thing because it is spot welded in place, so I have not
> removed it. But it is the first motor capacitor I've ever seen
> made

> this way.

>

> There must be a reason for it. Perhaps it is there to limit the
> peak

> voltage and/or current during startup or stop. Remember, it's only a
> 1/4

> watt resistor.

>

> Any ideas?

>

> Herb Rosenthal W5AN

>

>

>

From: "philip mccoey" <dgnova@erols.com>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: BC189 dates and man

Date: Mon, 18 Dec 2000 17:50:15 -0500

MIME-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Message-Id: <E14897m-0002y0-00@smtp02.mrf.mail.rcn.net>

In response to questions:

The manufacture of one BC-189a was Radio Receptor Co. Inc. A contract date was 1936

The date on one coil of a BC-189 (not BC-189a) was 1934

If any else has dates or manufactures for this set, I would like to hear

Philip McCoy dgnova@erols.com

Message-ID: <3A3E9E08.5106E5FE@okla.net>
Date: Mon, 18 Dec 2000 17:30:16 -0600
From: "Arnulf P. Hagen" <aphagen@okla.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Wen 199
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I dropped my trusty favorite 45-year old Wen 199 soldering gun. Does anyone have a unit to sell or just the outer bakelite (?) case?
Thanks, Arni W5SR0

Message-ID: <20001218233033.2674.qmail@web3201.mail.yahoo.com>
Date: Mon, 18 Dec 2000 15:30:33 -0800 (PST)
From: michael watts <wy6k@yahoo.com>
Subject: Need SP600 photos
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Several people have asked me to print up some T shirts, Sweatshirts, coffee mugs, and mousepads with images of the SP600. I'm happy to do it but I don't have any good photos of the SP600. The photos I have of my SP600 (which I sold a while back) are crummy and I don't want to use them. (as you can see on my web site at www.qsl.net/wy6k).

If you have some nice photos of the SP600 and don't mind my using them please email them to me. If I make some stuff using your photo I'm glad to give you a

free T shirt (or one of the other items).

I put this on these lists because I know there is a lot of overlap and some of you R390a guys have SP600's too!

Thanks,
Mike wy6k

Do You Yahoo!?
Yahoo! Shopping - Thousands of Stores. Millions of Products.
<http://shopping.yahoo.com/>

Message-ID: <000101c06950\$740293c0\$7ff3d1d8@b1yhpg64>
From: =?iso-8859-1?Q?Andr=E9_Guibert?= <aguibert@sympatico.ca>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Tr: old-fashioned soldering iron
Date: Mon, 18 Dec 2000 19:09:21 -0500
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> Bonsoir to Hugh and All
> Went thru the family treasure and found a 300w,
American
> Beauty, wheighs about 3-4 lbs.
> Used it to resolder maple sap boiling pans.
> Keeping two soldering irons used with a blow torch and
> two others using naphta fuel,
> one of them looks like a tomahak, all brass.
> Is the 300w big enough for you?
> Andre
> PS: Green is the color most becoming to the Lord and
> me(Loose quote from" The Cardinal")
>
>
>
>
>

Message-Id: <4.2.0.58.20001218162337.00a25780@pop3.concentric.net>

Date: Mon, 18 Dec 2000 16:31:19 -0800
To: Old Tube Radios <boatanchors@theporch.com>
From: Ed Zeranski <ezeran@concentric.net>
Subject: Re: BC-189
Cc: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

>
>

>Burma put a whole new meaning to the word, "misery".
Also it was another time (classic actually) when a brilliant commander in
special warfare was negated by the "leg" thinking of the regular force
butt heads. Read about the Chindits and their taking the war home to the JNs.

Message-ID: <3A3EB207.5450DB10@charter.net>
Date: Mon, 18 Dec 2000 18:55:35 -0600
From: Paul Monroe <pmonroe@charter.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: old-fashioned soldering iron
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hue and the group:

American Beauty soldering irons are still made and can be purchased from
many industrial suppliers. I suspect that many of the group members
would also like to get their hands on an old fashioned iron.

They ain't cheap!

Try the following link to find a distributor in your area.

<http://www.assemblytech.com/>

I don't have any connection with this company.

73,

Paul, W9MEH

Message-Id: <4.2.0.58.20001218181458.009fced0@pop3.concentric.net>
Date: Mon, 18 Dec 2000 18:15:47 -0800
To: Old Tube Radios <boatanchors@theporch.com>

From: Ed Zeranski <ezeran@concentric.net>
Subject: Re: Meter Needed
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 10:33 AM 12/18/00 -0700, jim_allen@agilent.com wrote:

>I recently got a Lysco 600 transmitter with
>a bad meter. I'm in need of a 2" one that
>is 0-150 ma full scale. Glad to pay a fair
>price and shipping.

>

>Thanks,

>

>Jim

>

Will check in the heap. By the way...look at the Sept/Oct 1950 CQ or
QST..can't remember, for a neat article on the set. I have the model 150
antenna tuner made for the Lysco 500/600 Transmaster as a random wire tuner

Message-ID: <000701c06965\$729a44a0\$682f163f@kx4rmain>
From: "Greg KX4R" <kx4rgc@email.msn.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Need Thordarson Info
Date: Mon, 18 Dec 2000 21:43:17 -0500
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Gang !

I'm trying to refurbish a homebrew speech amp from the
mid 50's and need information on the following Thordarson
transformer.....T58A37

Can anyone out there help ?????

73, Greg KX4R

Message-Id: <3.0.3.32.20001218215819.00d8ae4c@mindspring.com>
Date: Mon, 18 Dec 2000 21:58:19 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: john <johnmb@mindspring.com>
Subject: Re: Need Thordarson Info
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Sure!

>From the 1940 Catalog
Low impedance mike/line/ mixer to grid
58-A37
DB mic to grid
Pri-200 ohms Ct
Sec 100,000
\$2.25 (in 1940 dollars)

Hope that helps!
John

At 09:43 PM 12/18/00 -0500, Greg KX4R wrote:

>Hi Gang !
>I'm trying to refurbish a homebrew speech amp from the
>mid 50's and need information on the following Thordarson
>transformer.....T58A37
>Can anyone out there help ?????

>

>73, Greg KX4R

>

>

John Brewer - WB50AU/4

AMI #24

Clayton NC

johnmb@mindspring.com

Message-Id: <200012190348.VAA21813@exit1.i-55.com>

From: "Sandy Blaize" <ebjr@i-55.com>

To: Old Tube Radios <boatanchors@theporch.com>

Cc: "Boatanchors reflector" <boatanchors@theporch.com>

Subject: Re: Need Thordarson Info

Date: Mon, 18 Dec 2000 22:07:50 -0600

MIME-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit

> From: Greg KX4R <kx4rgc@email.msn.com>

> To: Old Tube Radios <boatanchors@theporch.com>

> Subject: Need Thordarson Info

> Date: Monday, December 18, 2000 8:43 PM

>
> Hi Gang !
> I'm trying to refurbish a homebrew speech amp from the
> mid 50's and need information on the following Thordarson
> transformer.....T58A37
> Can anyone out there help ?????
>
> 73, Greg KX4R
>

It's a double button carbon mike to grid transformer.
Primary impedance is 200 ohms center-tapped, secondary is 100,000
ohms.

73,
Sandy Blaize, W5TVW
MERRY CHRISTMAS & Happy New Year
>From the heart of: Pumpkin Center, LA., USA

To: Old Tube Radios <boatanchors@theporch.com>
Cc: boatanchors@theporch.com
Date: Mon, 18 Dec 2000 23:06:47 -0600
Subject: Re: old-fashioned soldering iron
Message-ID: <20001218.231028.-218953.0.jackiv@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
From: jackiv@juno.com

Paul and others-- I find them at garage sales almost one per month in my
area. american beauty, hexacon and the ge as used by ma bell in the main
frame area.
happy holidays to all es 73 jack K0EWU

On Mon, 18 Dec 2000 18:55:35 -0600 Paul Monroe <pmonroe@charter.net>
writes:
> Hue and the group:
>
> American Beauty soldering irons are still made and can be purchased
> from
> many industrial suppliers. I suspect that many of the group members
> would also like to get their hands on an old fashioned iron.
>
> They ain't cheap!
>
> Try the following link to find a distributor in your area.
>
> <http://www.assemblytech.com/>

>
> I don't have any connection with this company.
>
> 73,
>
> Paul, W9MEH
>
>

Message-ID: <3A3EDDA6.B2F322C7@lobo.net>
Date: Mon, 18 Dec 2000 21:01:51 -0700
From: "Herbert M. Rosenthal" <herbrose@lobo.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Split phase motor capacitor-Chapter II
Content-Type: text/plain; charset=us-ascii; x-mac-type="54455854"; x-mac-creator="4D4F5353"
Content-Transfer-Encoding: 7bit

Thanks to all who responded to my query.

Everyone (9) contends that the resistor is simply a safety device to discharge the capacitor for safety reasons.

Remember, now, this is a split phase motor capacitor. I just measured the DCR of each winding-10 ohms, so at all times the cap is in the circuit, there is a 20 ohm resistance across the capacitor, and that it's an AC 60 Hz circuit. So, if the capacitor remains in the circuit when the power is removed, it's going to discharge pretty fast- a matter of the inductance of the windings along with the capacity and the resistance...an RLC circuit.... maybe a few Hertz @ 60 Hz... milliseconds.

And I must admit, it is possible to remove the cap from the circuit when the potential is at one of the peaks (AC).
So in this case, a protective bleeder would act as a safety device.

But in all the oil and electrolytics I've ever seen or used, I've never known the manufacturer to worry about them being shock hazards, and including a bleeder-other than what one correspondent wrote-that the caps in a microwave oven may have them internally.

Oh, yes, I once bought a large power cap from Peter Dahl, and it had a piece of # 30 tinned wire across the terminals when I received it.

Bottom line, I'm not completely convinced-yet-so I'll pursue the matter further; maybe even call GE or Mallory.

Stay tuned.

Herb Rosenthal W5AN

Date: Tue, 19 Dec 2000 09:00:27 -0600 (CST)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Old Tube Radios <boatanchors@theporch.com>
cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Split phase motor capacitor-Chapter II
Message-ID: <Pine.OSF.3.96.1001219085550.11772B-100000@admin.aurora.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 18 Dec 2000, Herbert M. Rosenthal wrote:

> Oh, yes, I once bought a large power cap from Peter Dahl, and it had a
> piece of # 30 tinned wire across the terminals when I received it.

At one time I removed a 4uf 4000V cap from a Gates FM BDCST transmitter. That rig had a PI filter and the input cap had gone bad. I wanted to replace them both with 5000V units. Anyway, I set the good 4000V unit on the shelf for a spare. Some time later when I was dusting off the shelves, I got zapped when I touched the cap's terminals. I discharged it completely with a screw driver, but a day or so later it would charge up again. I always wondered if it was picking up RF or what. But I had to keep a shorting wire across it.

"Nostalgia is a thing of the past"

E-mail: broehrig@admin.aurora.edu or k9eui@arrl.net 73 de Bob, K9EUI

CIS: Data / Telecom Aurora University, Aurora, IL

630-844-4898 Fax 630-844-4222

PLEASE PUT ALL REPLIES IN ASCII TEXT ONLY

Date: Tue, 19 Dec 2000 11:10:50 -0800
From: Arden Allen <gumbear@pacbell.net>
Subject: Re: Split phase motor capacitor-Chapter II
To: Old Tube Radios <boatanchors@theporch.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0G5T00L2ZX5MWX@mta5.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

Hi Bob;

> At one time I removed a 4uf 4000V cap from a Gates FM BDCST transmitter.
> That rig had a PI filter and the input cap had gone bad. I wanted to
> replace them both with 5000V units. Anyway, I set the good 4000V unit
> on the shelf for a spare. Some time later when I was dusting off the
> shelves, I got zapped when I touched the cap's terminals. I discharged
> it completely with a screw driver, but a day or so later it would charge
> up again. I always wondered if it was picking up RF or what. But I had
> to keep a shorting wire across it.

No, capacitors don't rectify unless they conduct monodirectionally like an electrolytic. Problem is the capacitance shorts out the AC! And then the electrolyte's leakage takes care of whatever is left after removing the cap from the circuit. What you experienced is the result of dielectric absorption. Voltage strains the dielectric molecular latticework and after the capacitor is discharged the stored energy in the dielectric is slowly released, returning an electrostatic charge to the plates. Big caps are often shipped with shunts across the terminals for safety reasons.

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Message-ID: <01C069CE.F152F8A0@dial38.pm3-v90.mystic.riconnect.com>
From: "Christopher A.Bowne" <radiobwn@riconnect.com>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "'dale.gagnon@compaq.com'" <dale.gagnon@compaq.com>
Subject: Old Military Radio Net 10th Anniversary This Saturday
Date: Tue, 19 Dec 2000 15:18:22 -0500

In addition to being the 100th anniversary of Fessenden's first transmission of the human voice by radio, and the day of the first Electric Radio/AM International Heavy Metal operating event, Saturday Dec. 23rd also marks the 10 year anniversary of the first session of the East Coast Old Military Radio Net. We have been meeting virtually every Saturday morning at o-dark hundred (0500 Eastern Time) since Walt Hutchens, KJ4KV started us up on December 22, 1990. Please join us to celebrate on Saturday morning on 3885 kc. Net control will be Ted, W3PWW. Operation with military gear is not a prerequisite, but is of course encouraged, since that's what this net is all about!

73,

Chris Bowne, AJ1G
Stonington, CT
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AMI No. 211

Date: Mon, 18 Dec 2000 12:34:21 -0500 (EST)
Message-Id: <200012181734.eBIHYL315513@ecunet.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: SUBJECT: RE: LOUDSPEAKER Z
From: JOHN.SEHRING@ecunet.org

To: boatanchors@theporch.com

> > I think that the impedance *peaks* at the free air resonant frequency
> of > the driver in free air. The driver is at that freq most easily
> excited > by
> > input energy. Consideration of equivalence of mechanical and
> electrical > impedance concepts shows this. You can even do that by
> thumping on the > back of the driver with your hand.
>
> This is correct as at the resonant frequency the most energy is stored.
> It is analogous to charging a battery. When the battery is fully
> charged it does not want any more current and therefor it is at maximum
> resistance (impedance). Who said there was no such thing as an AC
> battery???

Very good point! You could imagine draining the battery's electrical energy in some periodic way, then it would look like a resonant system to the charger.

Or, think of battery as a resonant circuit with a resonant frequency of 0 Hz, or DC!

And of course, a battery can also be described by its capacitance (charge/volt), which is huge.

-John Sehring (12/15/00, temp. at RPSL MedCenter/Chicago) UCC WB0EQ

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